INFRARED SYSTEMS

Azden Provides The Solution To The Shrinking Frequency Availability Problem!

Now you can use an unlimited number of systems in the same building and not worry about frequency interference! The new Azden "Red" Series of infrared wireless microphones is the solution for classrooms, auditoriums, churches, conference/meeting rooms, and health clubs, and wherever security is an issue.

IRR-10
The single-channel IRR-10 has the same features as the IRR-20, but with only one channel, and is for those on a budget. Later, you can add a second receiver on another channel and get the same results as the IRR-20.

IRR-20
The two-channel IRR-20 receiver allows the use of two mics at the same time. Each channel has its own frequency and every IRR-20 uses the same two frequencies. The receiver's built-in sensor array allows complete freedom of movement in a 1600-sq.ft. room. For larger rooms, up to three wall/ceiling mountable external sensors (IRD-10) increase the working distance. If the receiver is mounted in a secured cabinet the third sensor input disables and replaces the receiver's internal sensor.

IRB-10
The IRB-10 battery-powered body-pack provides hands-free mobility and features a unique clip-on emitter that attaches to the speaker's clothing, or can be neck-worn with the supplied lanyard. The mic jack accepts many mic choices and has an adjustable volume control. Frequency selection is accomplished using a small hidden switch. The top-mounted ON/OFF switch powers the body-pack and activates the Power LED. A metal belt-clip keeps the IRB-10 firmly in place. There is an auxiliary microphone built into the emitter, for use as a back-up.

IRH-10
For pass-around, use the 2-channel IRH-10 handheld uni-directional mic/transmitter. Multiple emitters around the base and near the mic element flood the room. An anti-roll ring around the mic head keeps the IRH-10 from rolling off a sloping lectern or school desk.

IRD-10
The IRD-10 external sensor increases the reciever's working distance. These external sensors are ideal for larger rooms and come with wall/ceiling metal mounting brackets.

SPECIFICATIONS

System overall

Working range	IRB-10 - 1600 ft² w/built-in sensor
	IRH-10 - 2500 ft² w/built-in sensor
Frequency response	50Hz - 9kHz (±3dB) body pack (mic dependent)
	50Hz - 5kHz (±3dB) auxiliary emitter mic
	40Hz - 9kHz (±3dB) handheld
Dynamic range	>100dB
Operating temperature range	32° - 113°F (0° - 45°C)
Noise reduction	2.1 log compander

IRR-20 2-channel receiver

Sub-carrier frequencies	2.06MHz & 2.56MHz switchable
Type	super heterodyne - crystal controlled
Modulation	FM
Signal to noise	>90dB
Image rejection	>40dB
Reception sensitivity	>25dBµV
Reception selectivity	±40kHz
Audio output adjustment	mic:-20dB max
	line:+4dB max
Audio output impendence	mic:<1.5k ohms
	line:<1k ohms
Power requirement	12VAC @ 1.6A
Size	8.46" W x 8.27" D x 1.73" H (215 x 210 x 44)
Weight	2.53 lb (1.5 kg)

IRB-10 - channel body pack transmitter

Sub carrier frequencies	2.06MHz & 2.56MHz switchable
Modulation	FM
Audio distortion	< 1.0% (± 40kHz deviation @ 1kHz)
Mic input impedance	2.2k ohms
Mic input jack	3.5mm
Built-in auxiliary mic	uni-directional electret
Mic gain adjustment	Max to -50dB
Battery type	2 - "AA" alkaline (2 x 1.5V)
	2 - "AA" rechargeable Nh-MH or Ni-Cd (2 x 1.2V)
Battery life (100mA drain)	>15 hours w/alkaline batteries - low power mode
(160 mA drain)	>10 hours w/alkaline batteries - high power mode
Size	3.94" H x 2.52" W x 1.06" D (100 x 64 x 27 mm)
Weight	4.65oz (132g) - transmitter (w/alkaline batteries)
	1.34oz (38g) - clip-on emitter

IRH-10 - 2-channel handheld transmitter

Sub-carrier frequencies	2.06MHz & 2.56MHz switchable
Modulation	FM
Audio distortion	< 1.0% (± 15kHz deviation @ 1kHz)
Microphone element type	uni-directional dynamic
Battery type	2 "AA" alkaline (2 x 1.5V)
	2 "AA" rechargeable Ni-MH or Ni-Cd (2 x 1.2V)
	1 - Azden AN-2A rechargeable Ni-Cd
Battery life (260mA drain)	>10 hours w/alkaline batteries
Size	10.04" x 2.28" (255 x 58mm)
Weight	9.0 oz (258g) w/alkaline batteries

IRD-10 external sensor

Cable length	32.8' (10m)
Power	powered by receiver
Size	2" W x 3" W x 1! H (50.8 x 76.2 x 25.4 mm)
Weight	4 oz (113.4g)
Mounting	included metal bracket